UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF COMMERCIAL FISHERIES

CALIFORNIA FISHERY MARKET NEWS MONTHLY SUMMARY

January 1961

Part II–Fishing Information*

Sea-surface temperatures, fishing and research information of interest to the West Coast tuna-fishing industry and marine scientists

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* Part I - "Fishery Products Production and Market Data" is issued by the Bureau of Commercial Fisheries, Market News Service, Post Office Building, San Pedro, California

TOPOGRAPHIC CHART NO. 9

Topographic Chart No. 9 which shows seamounts and protuberances rising above the ocean floor between 10° N. and 17° N. latitude and 90° W. to 100° W. longitude was printed this month. Topographic charts now completed may be obtained from an Inter-American Tropical Tuna Commission representative or by writing directly to our San Diego address.

SEA-SURFACE TEMPERATURE CHARTS, EASTERN PACIFIC OCEAN JANUARY 1961

Acknowledgements

The following organizations and stations contributed data for the January 1961 charts:

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U. S. Coast Guard, Port Hueneme Light Station, Port Hueneme, California
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Scripps Institution of Oceanography, La Jolla, California by Margaret Robinson and Hans Klein
Ships Frances Salman, Trolleggen and Avila

Charts

Figure 1.--Mean sea-surface temperatures (°F) derived from approximately 7000 observations. Squares show temperature at weather-ship stations. Numerals on shore are temperatures at coastal and light stations.

Figure 2.--Deviation of sea-surface temperatures (°F) from long term mean charts of H. O. 225. Hatched areas are colder than mean.

Figure 3.--Deviation of sea-surface temperatures (°F) from those of January 1960. Hatched areas are colder than 1960.

Figure 4.--Sea-surface temperatures (°F) by 1-degree squares, approximately 1800 observations. Line under temperatures indicates average of two or more observations. Numerals on shore are temperatures at coastal and light stations.

Figure 5.--Deviation of sea-surface temperatures (°F) January 1961 - January 1960 by 1-degree squares. Shaded areas colder in 1961.

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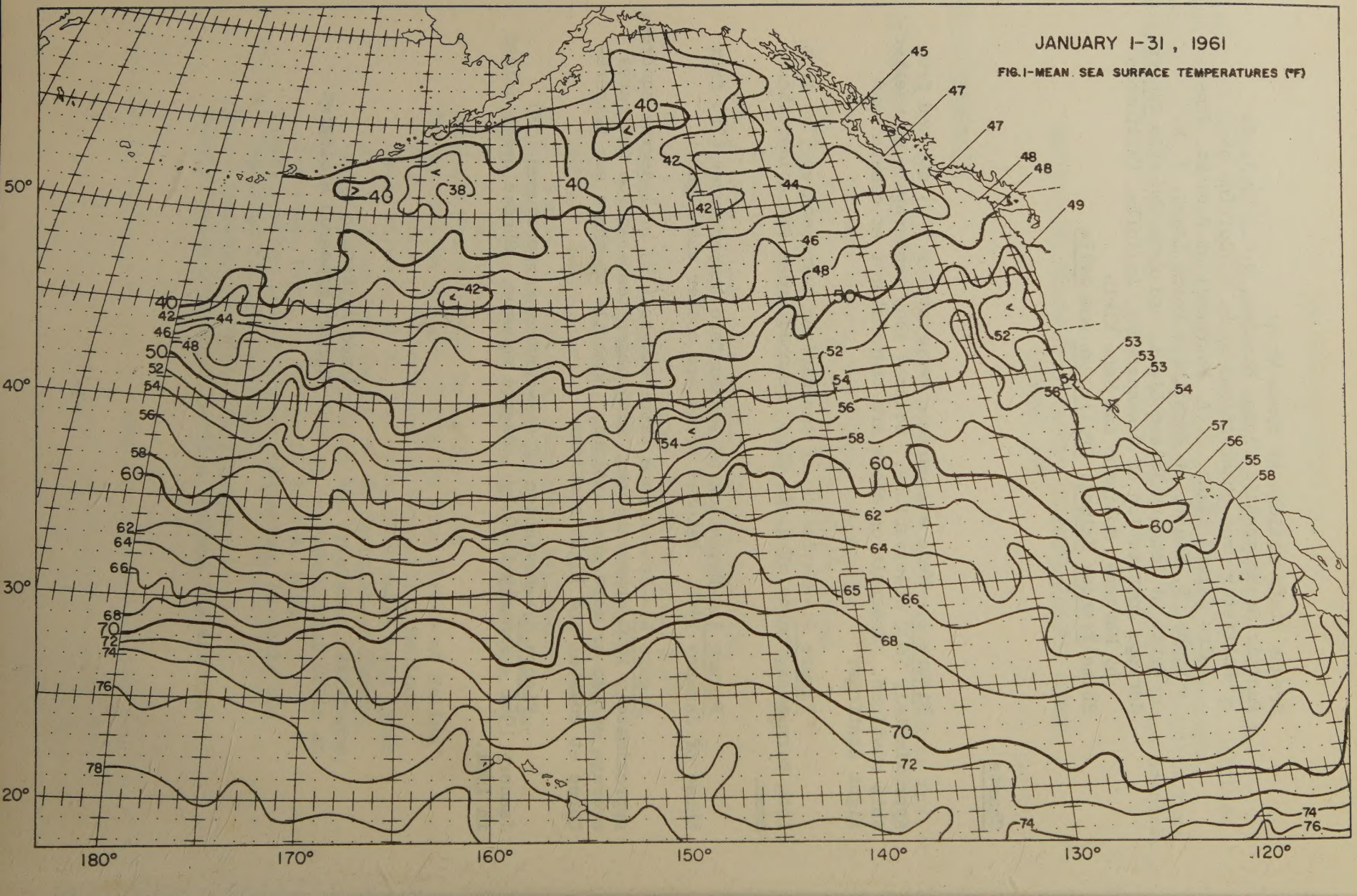
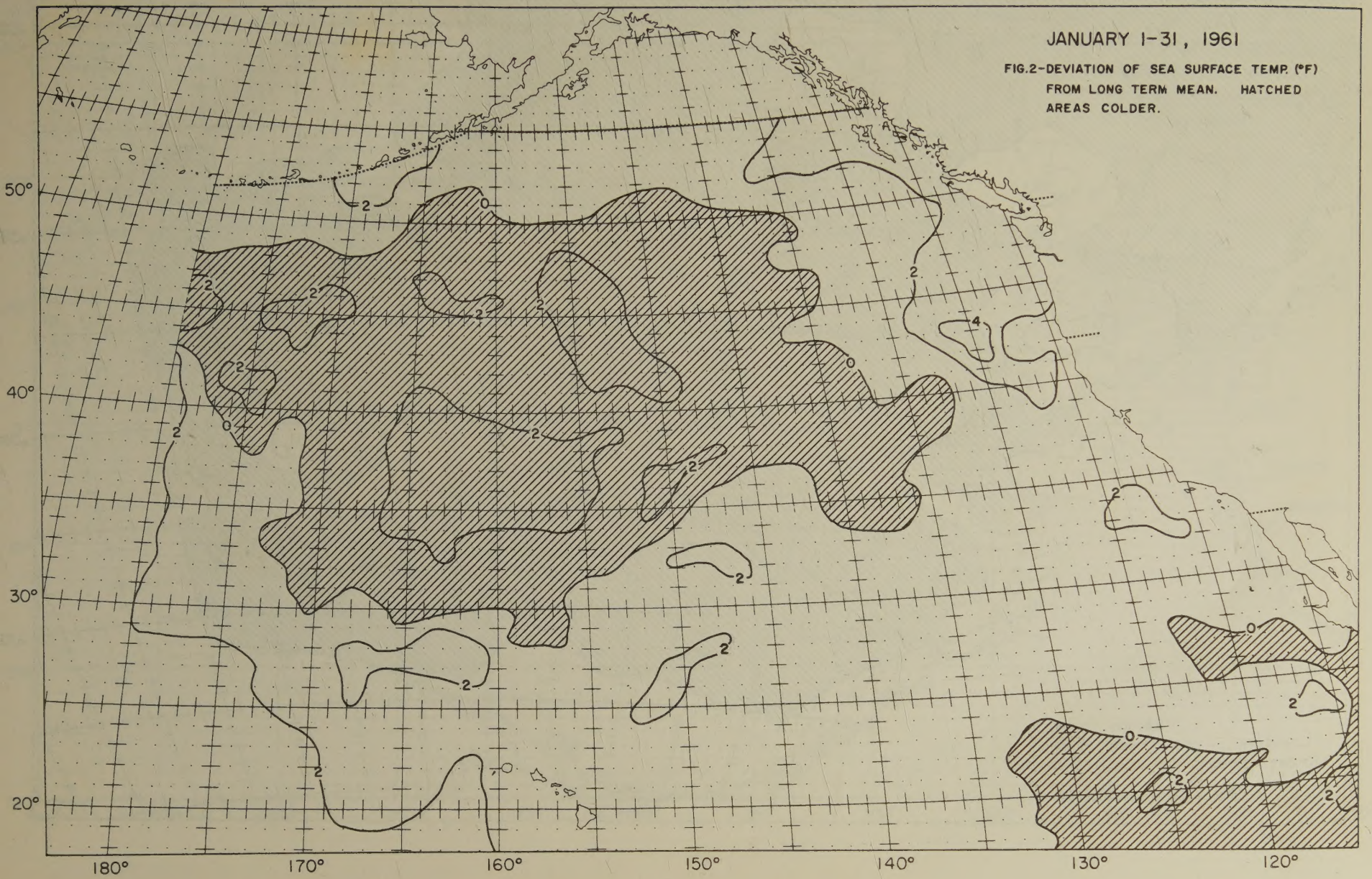
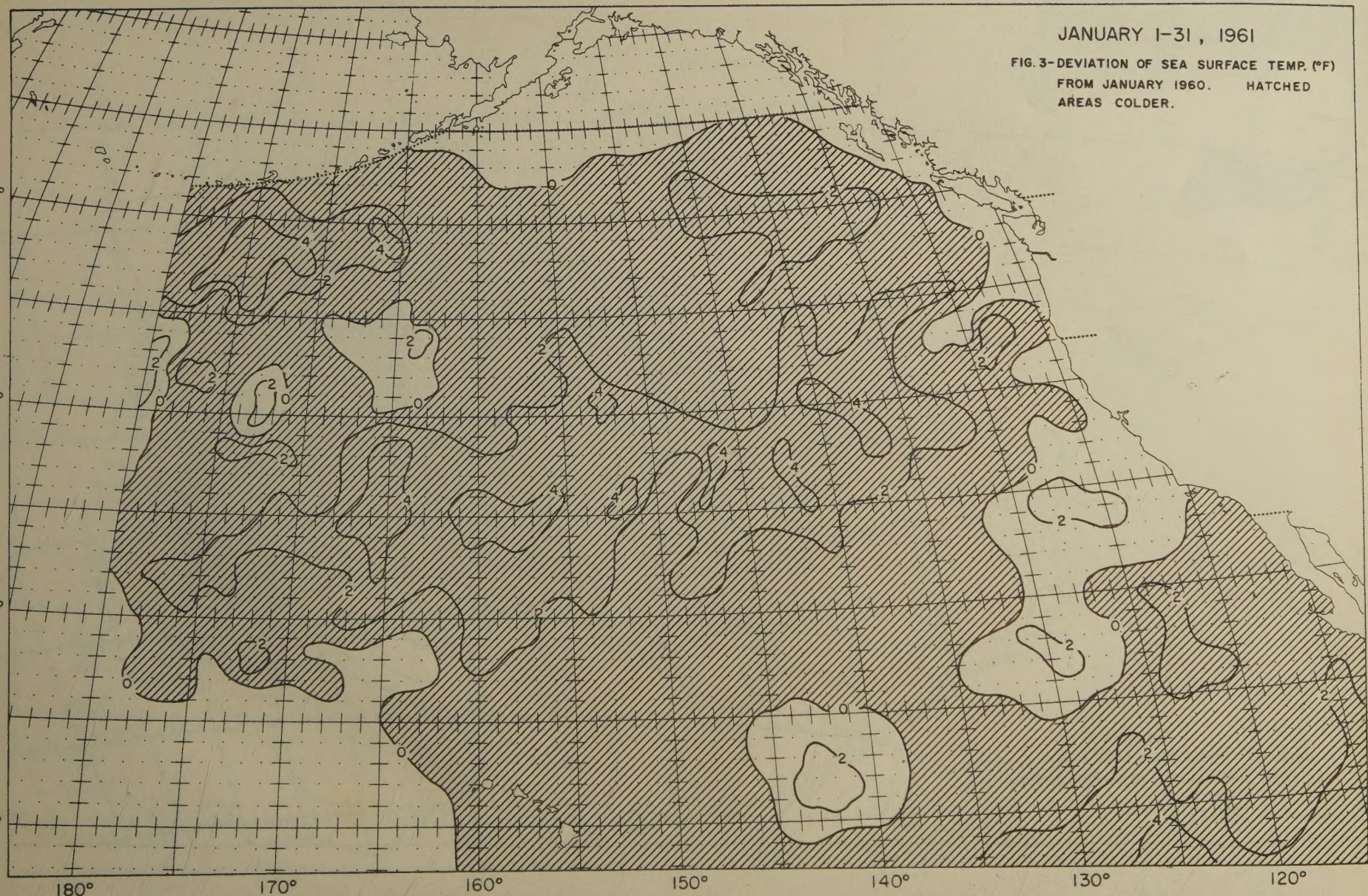
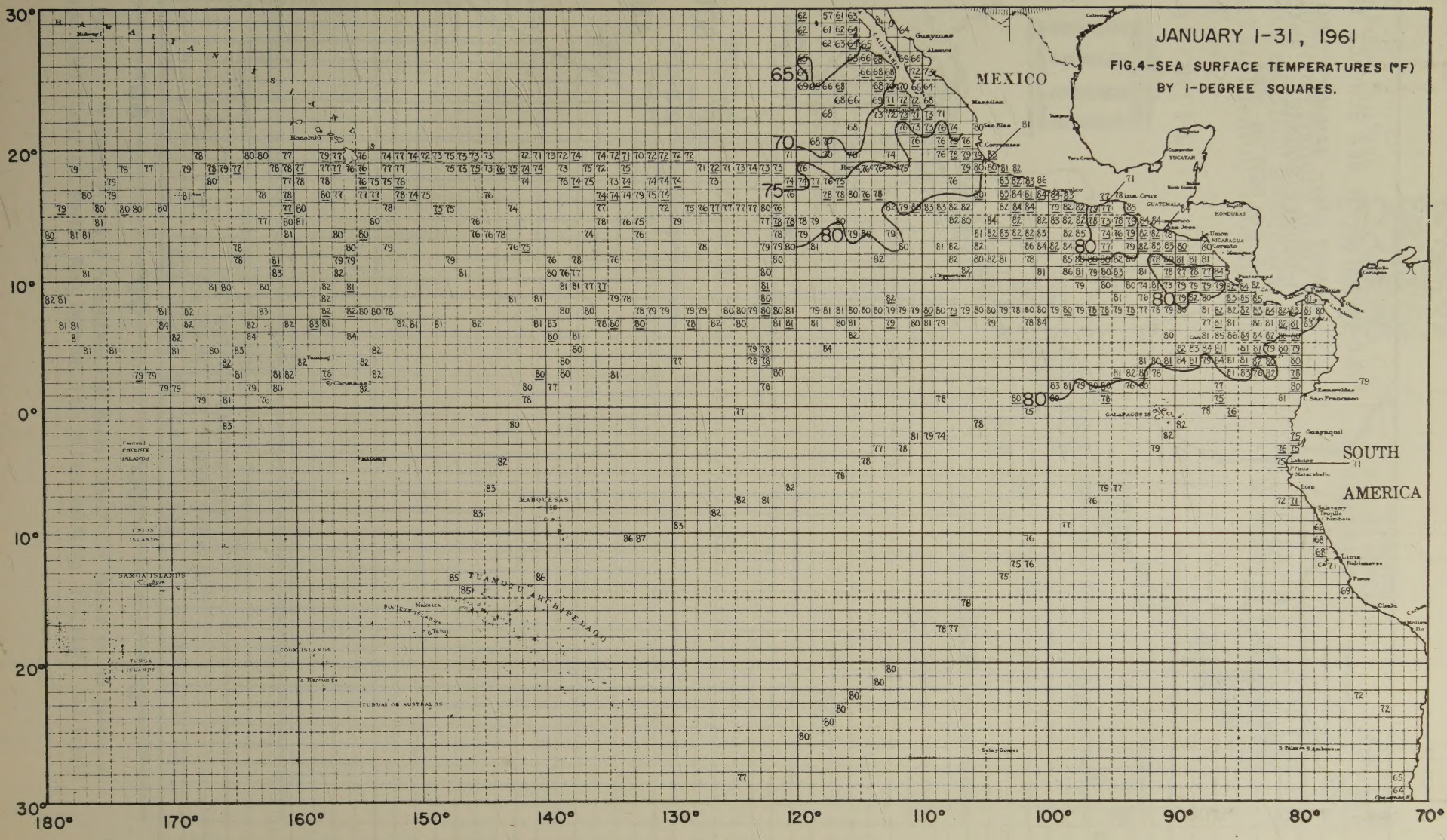
Fishery Research Biologist


JANUARY 1-31, 1961
FIG. 1-MEAN SEA SURFACE TEMPERATURES (°F)
50°
40°
30°
20°
180°
170°
160°
150°
140°
130°
120°


JANUARY 1-31, 1961
FIG.2-DEVIATION OF SEA SURFACE TEMP. (°F) FROM LONG TERM MEAN. HATCHED AREAS COLDER.
50°
40°
30°
20°
180°
170°
160°
150°
140°
130°
120°


JANUARY 1-31, 1961
FIG. 3-DEVIATION OF SEA SURFACE TEMP. (°F) FROM JANUARY 1960. HATCHED AREAS COLDER.
50°
40°
30°
20°
180°
170°
160°
150°
140°
130°
120°


JANUARY 1-31, 1961
FIG.4-SEA SURFACE TEMPERATURES (°F)
BY 1-DEGREE SQUARES.
MEXICO
SOUTH
AMERICA
HAWAIIAN ISLANDS
TUAMOTU ARCHIPELAGO
MARQUESAS
SAMOA ISLANDS
COOK ISLANDS
TUBUAI OR AUSTRAL IS.
PHOENIX ISLANDS
UNION ISLANDS
TONGA ISLANDS
GALAPAGOS IS.
30°
20°
10°
0°
10°
20°
30°
180°
170°
160°
150°
140°
130°
120°
110°
100°
90°
80°
70°

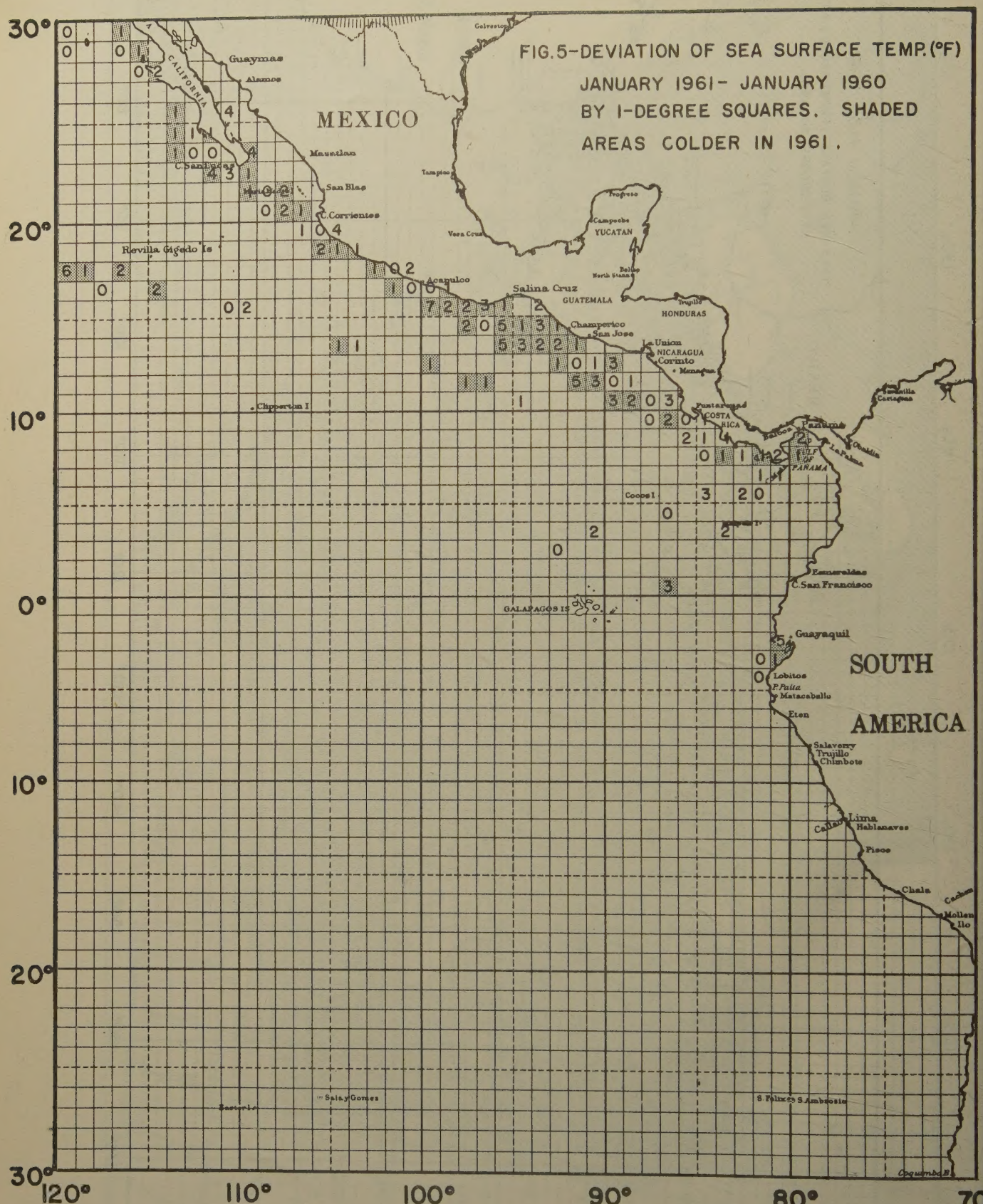


FIG.5-DEVIATION OF SEA SURFACE TEMP.(°F)
JANUARY 1961- JANUARY 1960
BY 1-DEGREE SQUARES. SHADED
AREAS COLDER IN 1961.
MEXICO
SOUTH
AMERICA
CALIFORNIA
Guaymas
Alamos
Mazatlan
San Blas
Corrientes
Revilla Gigedo Is
Acapulco
Salina Cruz
GUATEMALA
HONDURAS
Champerico
San Jose
La Union
NICARAGUA
Corinto
Managua
COSTA
RICA
PANAMA
Clipperton I
Cocos I
GALAPAGOS IS
Esmeraldas
C. San Francisco
Guayaquil
Lobitos
P. Pitta
Matacaballo
Eten
Salaverry
Trujillo
Chimbote
Lima
Callao
Huacho
Pisco
Chala
Mollendo
Salas y Gomez
S. Felix & S. Ambrosio
Coquimbo
Tampico
Vera Cruz
Progreso
Campeche
YUCATAN
Belize
Trujillo
Cartagena
Galveston
30°
20°
10°
0°
10°
20°
30°
120°
110°
100°
90°
80°
70°